

## Recombinant Rat ST14/Matriptase Protein (His Tag)

**Catalog Number:** PDER100225

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

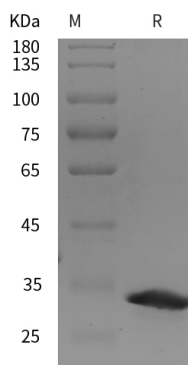
### Description

<b>Species</b>	Rat
<b>Source</b>	E.coli-derived Rat ST14 protein Lys591-Val855, with an N-terminal His
<b>Calculated MW</b>	29.0 kDa
<b>Observed MW</b>	34 kDa
<b>Accession</b>	Q9JJI7
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 10 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Rat ST14/Matriptase proteins, 2 µg/lane of Recombinant Rat ST14/Matriptase proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 34 kDa.

### Background

Degrades extracellular matrix. Proposed to play a role in breast cancer invasion and metastasis. Exhibits trypsin-like activity as defined by cleavage of synthetic substrates with Arg or Lys as the P1 site. Defects in ST14 are a cause of ichthyosis autosomal recessive with hypotrichosis (ARIH). ARIH is a skin disorder characterized by congenital ichthyosis associated with the presence of less than the normal amount of hair.

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Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017